LOZINSKAYA, T.A.; KARDASHEV, N.S.

Thickness of the gas disk of the Galaxy from observations at 21 cm. wave length. Astron.zhur. 40 no.2:209-215 Mr-Ap '63.

(MIRA 16:3)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.
(Milky Way)

ACCESSION NR: AP4032721

\$/0033/64/041/002/0282/0287

AUTHOR: Kardashev, N. S.

TITLE: Communication of information by extraterrestrial civilizations

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 2, 1964, 282-287

TOPIC TAGS: astrophysics, astronomy, extraterrestrial civilization, extraterrestrial communication, interplanetary communication, interstellar

ABSTRACT: The problem of communicating with civilizations elsewhere in our Galaxy and other galaxies is discussed; the author draws almost excipsively on English-language sources, with only limited assessment of the published data. The most important factors in space communication (transparency of the interstellar medium, instrument and cosmic noise and transmitter power) are discussed. It is noted that the most likely frequencies for ultralong distance communication are 109-1011 cps since the coefficient of absorption by the interstellar medium is negligibly small at these frequencies. Isotropic radiation is necessary for a possible and reliable reception by an unknown population. The article cites computations of the optimal spectrum of a signal which carries a large 1/2

ACCESSION NR: AP4032721

cosmic radio emission background. It is shown that a civilization at any distance in the universe which can transform power of the order of $L_D \sim 4.10^{13}$ ergs/sec or more into an isotropic coded radio signal can be detected by present-day radioastronomical methods. The expected properties of artificial sources of cosmic radio emission are noted. A number of objects, such as CTA-21 and CTA-102, presently of unknown character, possess a spectrum extremely close to the postulated artificial spectrum. The most favorable region for seeking artificial signals is toward the center of the Galaxy, since the density of the stellar population along the line of sight is maximum. It also is desirable to investigate the nearest galaxies, especially a large nebula in the constellation Andromeda and the Magellanic clouds, and the nearest radiogalaxies NGC 4486 and and that present-day radiophysics affords the possibility of establishing contact with them. Orig. art. has: 6 formulas, 2 figures and 1 table.

ASSOCIATION: Gosudarstvenny*y astronomicheskiy institut imeni P. K. Shternberga (State Astronomical Institute)

SUBMITTED: 12Dec63

DATE ACQ: 11May64

ENCL: 00

SUB CODE: AA

NO REF SOV: 000

OTHER: 012

Card 2/2

ACCESSION NR: AP4043951

8/0033/64/041/004/0601/0607

AUTHOR: Kardashev, N. S., Lozinskaya, T. A., Sleptsova, N. F.

TITLE: Spiral structure of the Galaxy from observations at 21 cm

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 4, 1964, 601-607

TOPIC TAGS: astronomy, Galaxy, galactic spiral, galactic disk, interstellar hydrogen

ABSTRACT: The distribution of interstellar hydrogen in the Galaxy, determined from radio observations at 21 cm, does not reveal a clearly defined spiral structure. The presently available pattern of distribution of hydrogen masses in the Galaxy generally reflects reality and if there is a spiral structure the angle of torsion cannot differ greatly from 90°. In order to clarify this problem, the authors exploited all presently known profiles of the 21-cm line near the galactic equator. The radial velocities of the intensity maxima of these profiles were plotted on a graph as a function of galactic longitude. This graph, Fig. 1 of the Enclosure, represents the distribution of radial velocities of hydrogen clouds along the galactic equator; the velocities of hydrogen clouds along the galactic equator; the various symbols represent observations made at Leyden, Sydney, Moscow, Bonn and in California. Fig. 1. makes it possible to distinguish the chains and loops which

Cord 1/5

ACCESSION NR: AP4043951

usually are identified with the spiral arms. After a full analysis of data in the literature for observations at 21 cm it was possible to construct Fig. 2. of the Enclosure, in which arm I is denoted by a solid line and arm II by a dashed line. The central part of the figure is based on data of G. W. Rougoor and J. H. Oort (Proc. National Academy of Sci., 46, 1, 1960). The distance to the nearest outer arm (Orion) is 800 parsecs; the distance to the inner arm (Sagittarius) is 900 parsecs. The spiral represented in the figure agrees quite well with observations. With an allowance made for the continuous spectrum it is concluded that the most probable regular form of the spiral arms of the Galaxy is a logarithmic spiral consisting of two arms, as shown, with an angle of torsion which varies smoothly from 83° in the central parts to 85° in the outer part of the galactic disk. Orig. art. has: 4 formulas and 5 figures.

ASSOCIATION: none

SUBMITTED: 00

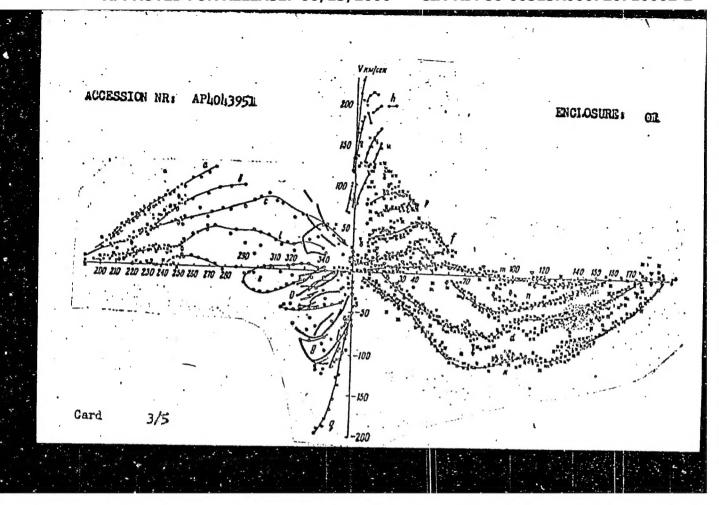
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SUB CODE: AA

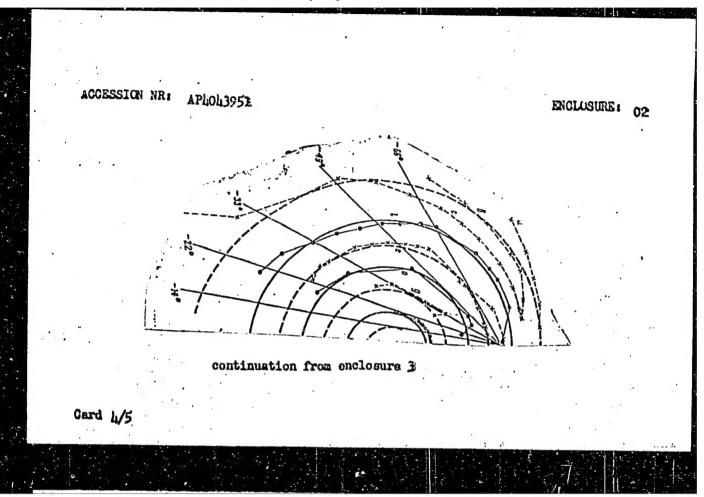
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OTHER: 016

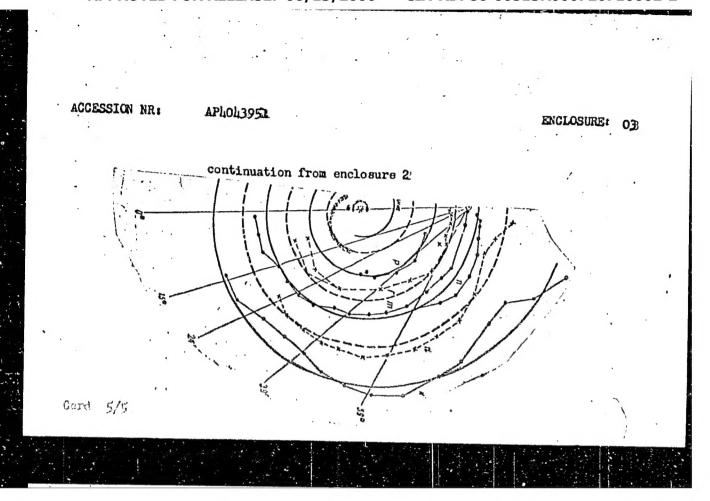
Card 2/5



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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720710002-2"

ACCESSION NR: AP4034535

s/0020/64/155/005/1039/1041

AUTHOR: Shklovekiy, I. S.; Kardashey, N. S.

TITIE: Gravitational waves and "superstars"

SOURCE: AN SSSR. Doklady*, v. 155, no. 5, 1964, 1039-1041

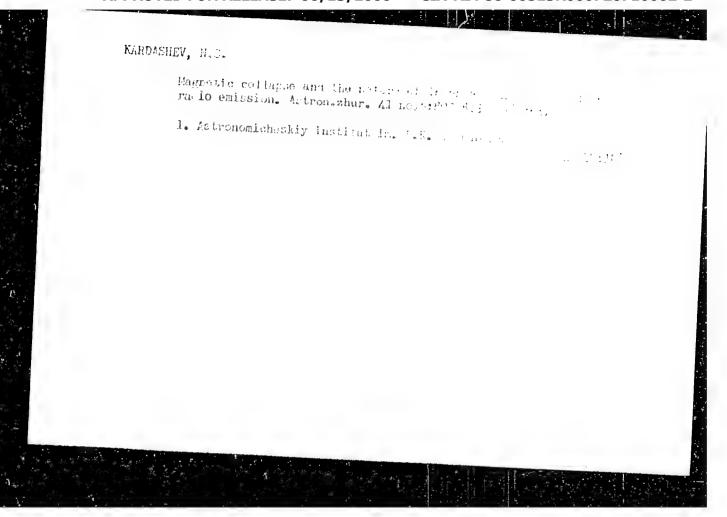
TOPIC TAGS: superstar, collapsing star, gravitational collapse, gravitational wave, general relativity theory, cosmic ray, radio star, energy transformation, gravitational energy

ABSTRACT: Starlike objects, identified with point radio sources, have been recently discovered. They are believed to have masses many million times the sum mass and to be of less than 1010cm in diameter. The authors discuss some results of the general theory of relativity that might be applicable to this superstar and to their gravitational collapse. The intensive radiation of gravitational waves must greatly affect the energy balance. By using a simple model for the collapsing star (a rod) and by considering the gradual increase of rotation due to conservation of angular momentum, a gravitational emission is computed to be in the order of 105 erg/sec. A similar result is obtained for

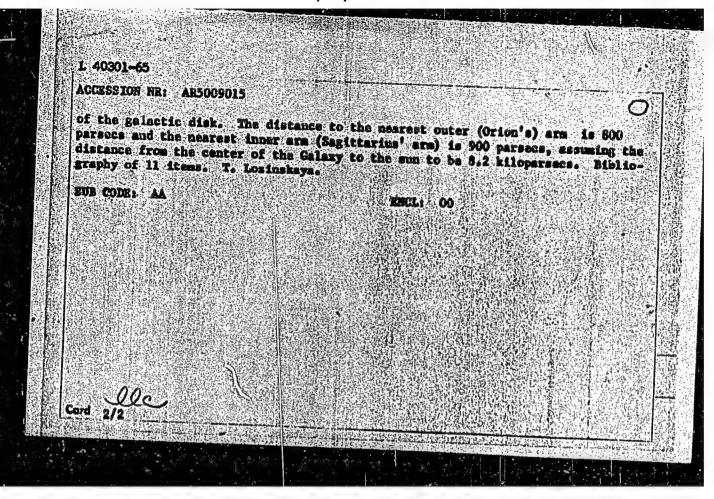
Card___1/2

KARDASHEV, N.S.; LOZINSKAYA, T.A.; SLEPTSOVA, N.F.

Spiral structure of the Galexy from observations at the 21 cm. line. Astron. zhur. 41 no.4860h-607 JI-Ag*64 (MIRA 17:8)



L 40301-65 FED/ENT(1)/ENG(v)/EEC-4/EEC(t) Pe-5/Pae-2/P1-4 CM/#5-4 8/0269/65/000/002/0052/0052 ACCESSION NR: AR5009015 SOURCE: Ref. sh. Astronomiya. Otd. vyp., Abs. 2.51,409 AUTHOR: Kardashey, M. S.; Lozinskaya, T. A.; Sleptsova, N. P. TITLE: Spiral structure of the Galaxy as revealed by radio observations at 21 cm CITED SOURCE: Astron. tairkulyar, no. 289, marta 24, 1964, 1-4 TOPIC TAGS: Calaxy, galactic structure, radio astronomy, galactic hydrogen, spiral arm, galactic disk, Orion, Sagittarius TRANSLATION: The authors report the results of an investigation of the spiral structure of the Galaxy on the basis of all published radio observations at 21 cm. The dependence of the radial velocities of hydrogen clouds on galactic longitude has been determined. The parameters of the two branches of the logarithmic spiral have been found for the inner parts of the Calaxy. Using the theory of a circular model of movement of hydrogen masses the authors have constructed a spiral for the outer regions of the Galaxy. It was found that the angle of torsion for both spiral arms changes smoothly from 83° in the central part to 85' in the outer ragions Card 1/2



LOZINSKAYA, T.A.; KARDASHEV, N.S.

Observations at the 21 cm. line for investigating the shape of the gas disk of the Galaxy. Soob. GAISH no.131:37-41 164. (MIRA 17:8)

L 5168-66 EWT(d)/FSS-2/EWT(1)/FS(v)-3 DD/GS ACC NR: AT5024309

SOURCE CODE: UR/0000/65/000/000/0037/0053

AUTHOR: Kardashev, N. S.

ORG: State Astronomical Institute im. P. K. Shternberg, MGU, Moscow (Gosudarst-vennyy astronomicheskiy institut, MGU)

45

TITLE: The transmission of information by extraterrestrial civilizations ${f v}$

SOURCE: Vsesoyuznoye soveshchaniye, posvyashchennoye probleme vnezemnykh tsivilizatsiy. 1st, Byurakan, 1964. Vnezemnyye tsivilizatsii (Extraterrestrial civilization); trudy soveshchaniya, Yerevan. Izd-vo AN ArmSSR, 1965, 37-53

TOPIC TAGS: astronometry, galactic radiation, planet, radio astronomy, planetary

ABSTRACT: An optimistic viewpoint of the likelihood of receiving transmitted information from extraterrestrial civilizations is taken. The discussion is of observed information rather than pure speculation. An important question is Card 1/3

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L 5168-66

ACC NR: AT5024309

that of what is the level of a civilization from which we may receive information. This question may be broken down into questions about transmitter power, volume of transmitted information, and the likelihood of the detecting and receiving signals. The state of civilization is measured in terms of the production and consumption of energy. The author classifies civilizations into three types: I - one whose technological level is close to that of the earth, with an energy use of about 4.10 erg/sec; II - a civilization which harnesses energy radiated by its star (e.g., the stage of construction of a "Dyson sphere"), with energy consumption ~ 4.1033 erg/sec; and III - a civilization which harnesses energies on the galactic scale \sim 4.1044 erg/sec. The author offers his opinion on the rise and diffusion (in a galaxy) of the three civilizations, with estimates of the time required for a civilization to pass through the given stages. Discussion is offered on several points: 1) the capability of transmitting arbitrary information and the linguistics problem; 2) the unilateral character of transmission due to astronomic distances; 3) the optimal transmitting band; 4) the optimal transmitter radiation spectrum; 5) the reliability of signal detection and reception. Hypothetical cases of broadcasting over interstellar and intergalactic distances by various civilization types are considered. Conjecture on the type and volume

Card 2/3

L 5168-66 ACC NR: AT5024309

of broadcast information about the earth's civilization is offered. The questions and comments of E. G. Mirzabekyan, V. A. Ambartsumyan, G. M. Ayvazyan, and P. M. Geruni are given. Orig. art. has: 2 figures, 1 table, and 8 equations.

SUB CODE: AA/ SUBM DATE: 26May65/ ORIG REF: 001/ OTH REF: 008

Card 3/3 per

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MATVEYLURO, 1..., REPDASHIV, N.S.; SHCIORITHELY, T.R.

Producinterferometer with a large large. Law. vys. when. 26v.; 1sel eft. 3 no.4-651-654 165. (N.RA 18:2)

1. Nizicheskiy thetatul imeni P.N. Lebedevs AM SSCR.
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L 42283-66 EWI(d)/FBD/FSS-2/EWI(1) GW/WS-2 ACC NR: A P5022788 SOURCE CO

SOURCE CODE: UR/0141/65/008/004/0651/0654

AUTHOR: Matveyenko, L. I.; Kardashov, N. S.; Sholomitskiy, G. B.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR (Fizicheskiy institut AN SSSR)

TITLE: Radiointerferometer with a large base

SOURCE: IVUZ. Radiofizika, v. 8, no. 4, 1965, 651-654

TOPIC TAGS: radio antenna, antenna radiation pattern, interferometer, radio receiver

ABSTRACT: A radiointerferometer system is proposed which permits realizing very large bases (1000 km), doing away with radio relaying, automating the recording of the signal and processing of the recordings, and accomplishing a full scan within the pattern of a single antenna. A system of two antennas operating by the principles described in this article permits obtaining, with large bases, not only amplitude but also space-phase characteristics of interference and consequently to study in detail the distribution of the brightness of discrete sources of very small angular dimensions. The authors mathematically examine two independent receiving systems separated by a large distance. Each system consists of an antenna, HF amplifier, mixer, heterodyne, IF amplifier, and an HF recording device. Orig. art. has: 4 formulas.

SUB CODE: 17// SUBM DATE: 27Jan64/

ORIG REF: 001/ OTH REF: 007

UDC: 621.396.67:523.164

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L 02336-67 EWT(1)		
ACC NR: AR6028399	SOURCE CODE: UI	3/0269/66/000/005/0041/0041
AUTHOR: Kardash	ev, N. S.; Sholomitskiy, G.	,
TITLE: Limit of d	istances in extragalactic stu	dies P
SOURCE: Ref. zh.	Astronomiya, Abs. 5.51.3	30
REF SOURCE: Ast	ron. tsirkulyar, no. 336, iy	rulya 31, 1965, 3-6
TOPIC TAGS: extra red shift limit, emi	agalactic object, ext≃agalac ssion spectrum, optic dens	tic distance, extragalactic red shift, ty, extragalactic dust
$\alpha \lesssim 0$, if the source formula F_{ω}^{ω} emission scattering models of the Unive	Investigation of these with a line of these of a continuous contin	ctic objects in the condensation stage, ith it corresponding red shift e objects, requires the condition spectrum is represented by the sion for the optical density of ect to z in isotropic homogeneous the observable value z is about 7, ise determination of the value of the
Card 1/2	UDC: 523.855	

Cord PRIROVED FOR RELEASE: 06/13/2000

ACC NR: AR6035291

SOURCE CODE: UR/0208/66/000/009/0045/0045

AUTHOR: Kardashev, N. S.; Komberg, B. V.

TITLE: Dependence of the continuous optical spectrum of quasars on their red shift

SOURCE: Ref. zh. Astronomiya, Abs. 9.51.387

REF SOURCE: Astron. tsirkulyar, no. 357, fevr. 25, 1966, 1-5

TOPIC TAGS: optic spectrum, continuous spectrum, quasar optic spectrum, quasar continuous spectrum, quasar red shift

ABSTRACT: On the basis of three-color photometry (UBV) of a series of quasistelar objects, the dependence of "curvature" $\Lambda=a_1-a_2$ (where a_1 and a_2 are the spectral indexes of, respectively, UB and BV-rays) on the value of the red shift z of these objects has been calculated. From the dependence obtained it follows that in the region $\lambda_0=(2250\pm 0.05)$ λ , quasar spectra have a "step" of absorption. The occurrence of the "step" may be due to a matter with a wide absorption band (starting near λ 2250) which is distributed either in the

Card 1/2

UDC: 523, 164, 4

ACC NR: AR6035291

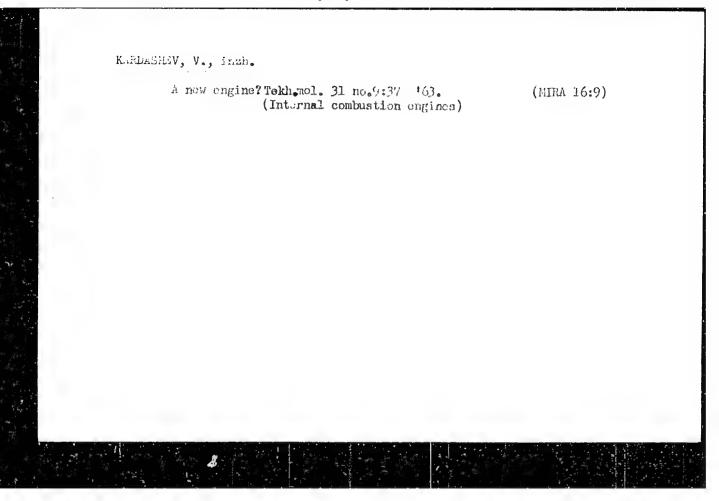
vicinity of radiation sources, or in the intergalactic space. This matter may be interstellar dust as, according to certain data, it has an anomalous absorption with a maximum near \$\frac{\chi^2}{2300}\$. However, as yet there is no definite answer as to the nature of the absorbing matter. With the existence of more materials on the identification and photometry of quasars, it becomes possible to ascertain with greater accuracy the dependence of \$\triangle \text{ on z. By means of this dependence it is possible to estimate the red-shift of unidentified objects on the basis of UBV data. It also makes it possible to calculate the retardation parameter. Preliminary estimates of z were made for seven unidentified quasars. The direct detection of absorption "steps" requires a thorough fotometric investigation of the spectra of quasistellar sources near \$\frac{\chi}{\chi}\$. A bibliography of 7 titles is included. V. Zay-tsev. [Translation of abstract]

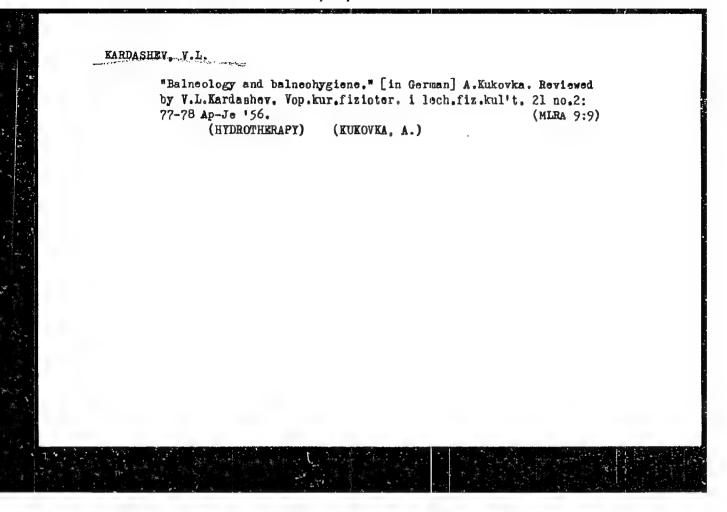
SUB CODE: 03/

Card 2/2

A new engine? Tekh, mol. 31 no. 9:37 163. (MIRA 16:9)

(Internal combustion engines)



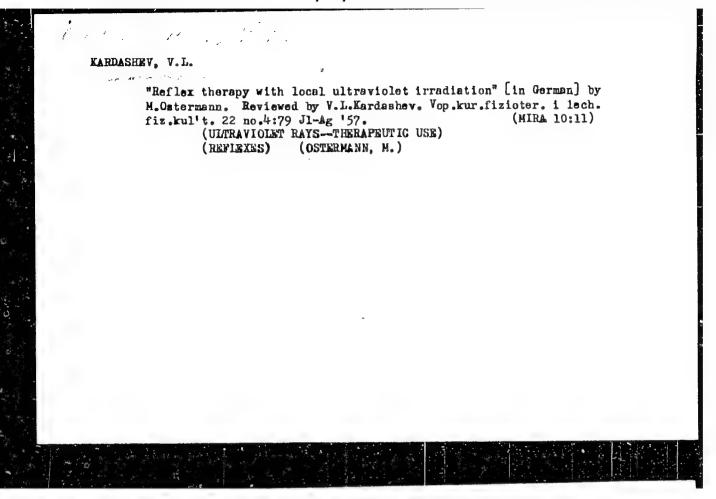


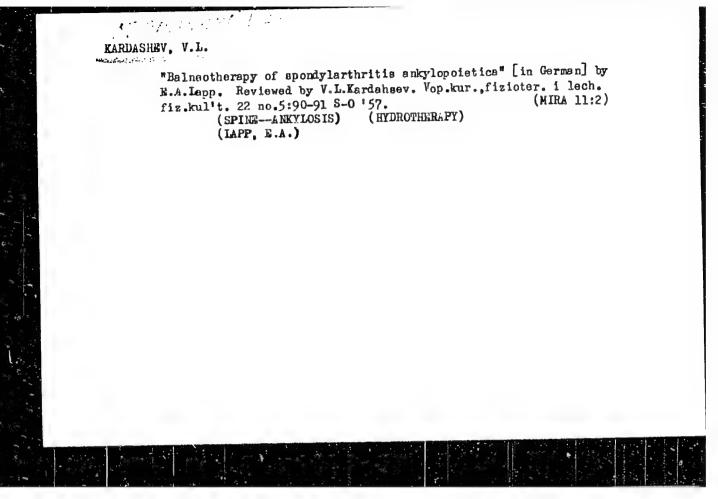
KARDASHEV, V. L. Cand Med Sci -- (diss) "The effect of the impulse of the electrical ultrahigh-frequency field upon under with processes of biological oxidation with standard conditions and in experimental hypertonia." (Experimental study).

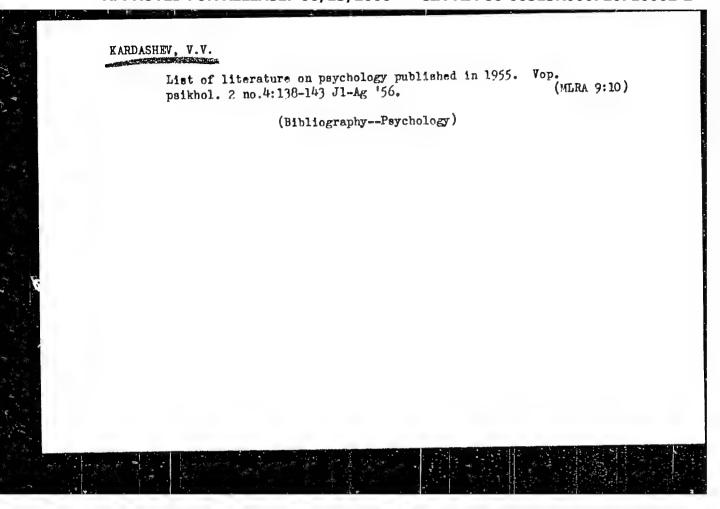
Mos,1957. 16 pp. (Acad Med Sci USSR). 220 copies.

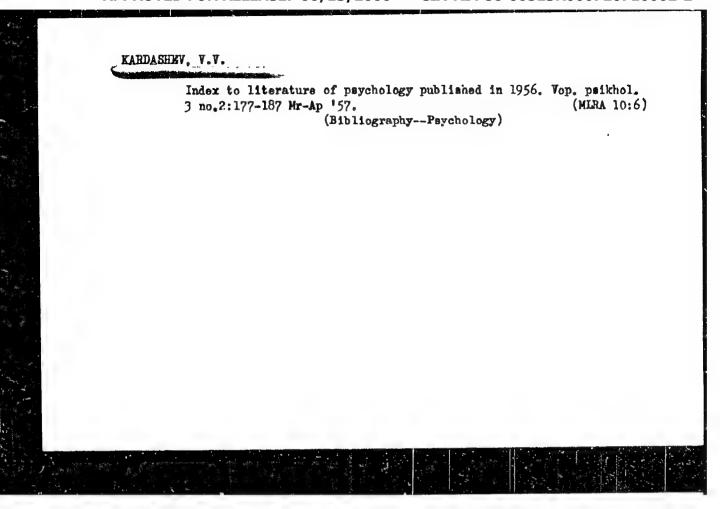
(KL, 8-58, 108)

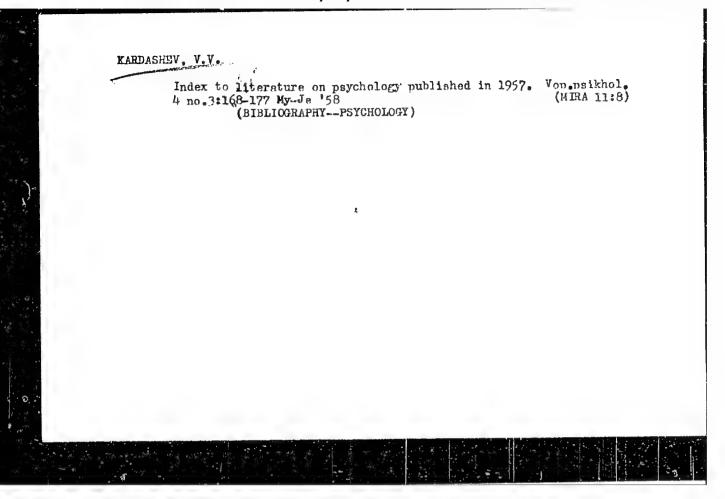
-62-

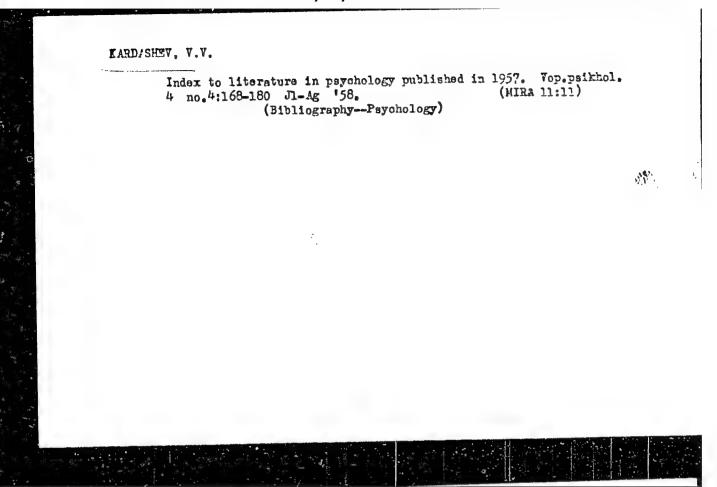












ACC NR: AT7002849 (N) SOURCE CODE: UR/3239/66/000/003/0011/0017

AUTHOR: Buznik, V.M.; Kardashev, Yu.D.

ORG: YEARL

TITLE: Investigation of heat transfer during the surface boiling and forced motion of seawater

SOURCE: Nikolayev. Korablestroitel nyy institut. Sudostroyeniye i morskiye sooruzheniya, no. 3, 1966. Sudovyye energeticheskiye ustanovki (Ship power equipment), 11-17

TOPIC TAGS: heat transfer, convective heat transfer, heat exchanger, heat transfer rate, see weter, solonimeter, boiling

ABSTRACT: The heat transfer of seawater in the presence of surface boiling and forced motion is described by a system of differential equations, which lead to criteria for which a function containing the properties of vapor bubbles is presented. This function is experimentally demonstrated on cleaned water distillate and sea water by the use of a calorimetric apparatus. As shown, the results of these experiments with water distillate boiling in the presence of underheating correspond with data obtained by other authors. It is shown that the forced-motion velocity

Card 1/2

UDC: none

ACC NR: AT7002849

significantly affects heat transfer only within the limits of convective heat transfer without boiling and does not influence its intensity during developed surface boiling. An increased underheating rate, up to the saturation temperature, affects heat transfer significantly. An analysis of experimental results led to a parametric equation which generally characterizes the heat transfer of a water distillate during surface boiling. Several series of experiments with sea water were carried out under the following conditions: a surface heating of 0.2×10^6 to $.3 \times 10^6$ Kcal/m²hr; a forced flow rate of 0.2 to 0.8 m/sec; underheating up to saturation temperatures of 28, 56, and 83C; and a 0 to 4% solute concentration. The graphically represented results are generalized by a parametric equation which provides a criterion for the heat transfer of underheated sea water subject to surface boiling and forced motion. The close relationship between the investigated heat transfer, of heat transfer in the presence of surface oscillations, and Reynolds criteria, indicates that vapor bubbles greatly intensify heat transfer.

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in the screen at several distances from the center, the flow rate in the flow cole

Card 1/2

APPROVED FOR

ACC NR: AT7002861

(N)

SOURCE CODE: UR/3239/66/000/003/0124/0126

AUTHOR: Buznik, V. M.; Artemov, G. A.; Bandura, V. N.; Fedorovskiy, A. M.; Kardashev, Yu. D.

ORG: none

TITLE: Method of measuring flow rates in rotating passages of marine turbines by means of metric pressure gages

SOURCE: Nikolayev. Korablestroitel'nyy institut. Sudostroyeniye i morskiye sooruzheniya, no. 3, 1966. Sudovyye energeticheskiye ustanovki (Ship power equipment), 124-126

TOPIC TACS: flow rate, flow velocity, gas turbine, turbine cooling, gas turbine engine

ABSTRACT: A method for cooling the parts of marine gas turbines is based on various experimental investigations, including studies of gas and cooling-air flow in rotating passages. An arrangement is described for determining the flow characteristics (flow rate and pressure) in the clearance between a gas-turbine disk and a screen rotating along with it, by which a pressure-sensitive directional probe and a traversing micropitot probe is used. The probes are shown and their operation is described. By in the directional probe into the disk-screen clearance through holes located in the screen at several distances from the center, the flow rate in the flow core can

Card 1/2

UDC: none

ACC NR: AT7002861

be measured. The pressure field across the section of the clearance is measured with the pitot tube. The arrangement for pressure transmission consists of a hollow shaft rotating inside the stator and provided with measuring chambers hermetically sealed by water chambers. The described method is reliable in operation and improves the accuracy of flow rate measurements. Orig. art. has: 3 figures.

SUB CODE: 13, 21/ SUBM DATE: none/ ORIG REF: 001/

Card 2/2

1. 31997-46 NO. (1) W

ACC. NR: AP6016912

(N)

SOURCE CODE: UR/0143/66/000/001/0084/0086

AUTHOR: Buznik, V. M. (Doctor of technical sciences, Professor); Artemov, G. A. (Engineer); Bandura, V. N. (Engineer); Kardashev, Yu. D. (Engineer); Fedorovskiy, A. M. (Engineer)

ORG: Nikolayevskiy Ship-Building Institute im. Admiral S. O. Makarov (Nikolayevskiy korablestroitel'nyy institut)

50

TITLE: Heat transfer from a flat disc rotating in an unlimited space

SOURCE: IVUZ. Energetika, no. 1, 1966, 84-86

TOPIC TAGS: heat transfer, turbulent heat transfer, heat transfer coefficient,

ABSTRACT: To accumulate experimental data and to study the heat transfer at a constant thermal flux, the authors experimentally investigate the heat transfer from a rotating disc to moving air at a constant value of the specific heat flux at the surface. The disc-calorimeter was heated by an electrical heater placed inside it. The temperature of the disc surface was measured by copper-constantant thermocouples. The hot junctions of the thermocouples were embedded on the outside surface of the disc at various distances from the axis of rotation. The experimental device is shown schematically. The results of the experiments were compared with the data of other authors investigating heat transfer from a rotating

Card 1/2

UDC: 536.244

L 38927-66 ACC NR: AP6016912

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disc obtained at a constant wall temperature. The transition to turbulence occurred at $Re=2.4\cdot 10^5$. It is found that the coefficients of heat transfer from a rotating disc in the case of a constant specific heat flux agree with those in the case of a constant wall temperature. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 01Feb65/ ORIG REF: 903/ OTH REF: 003

Card 2/2

BUZNIK, V. M.; KARDASHEV, Yu. D.

"Heat transfer with surface boiling of sea water."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Nikolayevskiy Ship Building Inst.

BUZNIK, V.M., doktor tekhn. nauk, prof.; ARTEMOV, G.A., inzh;
BANDURA, V.N., inzh.; KARDASHEV, Yu.D., inzh.; FITOP VSFIT

Heat transfer from a flat disc rotating in an unbounded space. Izv. vys. ucheb. zav.; energ. 9 no.1:84.86 Ja 1.6.

1. Nikolayevskiy korablestroitel'nyy institut imeni astatra s. S.O. Makarova. Predstavlena kafedroy teorii teplotesenis sudovykh parovykh kotlov. Submitted February 1, 1965.

ACC NR: AT6034432

(A)

SOURCE CODE: UR/0000/66/000/000/0015/0024

AUTHOR: Savitskiy, Ye. M.; Burkhanov, G. S.; Kopetskiy, Ch. V.; Bokareva, N. N.; Kardashevskaya, V. G.

ORG: none

TITIE: Production and properties of single crystals of refractory metals and alloys

SOURCE: AN SSSR. Institut metallurgii. Svoystva i primeneniye zharoprochnykh splavov (Properties and application of heat resistant alloys). Moscow, Izd-vo Nauka, 1966, 15-24

TOPIC TAGS: refractory metal, refractory alloy, single crystal, molybdenum, niobium, tungsten

ABSTRACT: The two main methods for production of metallic single crystals are extraction from a melt by the recrystallization method, and zone refining. The method of extraction from a melt by seeding is widely employed industrially for growing large single crystals of germanium, silicon (up to 80 mm in diameter), and somiconductor compounds of varying composition for diodes, transitors, and condensers. Application of this method to refractory metals has not been widely developed. The article describes in detail the techniques of zone refining. In vertical zone melting without a crucible, the ratio of the surface tension to the density of the melt should be

Card 1/2

ACC NR: AT6034432

100:1 or greater. The maximum size of single crystal rods produced by this method is, for example, 14-16 mm for molybdenum and 6-8 mm for tungsten, with a length of the order of 200-250 up to 500 mm. A table shows the purity and mechanical properties of rhenium of different degrees of purity, including the mechanical properties under elongation stress, the hardness, and the temperature of the start of recrystallization. A further table lists the mechanical properties of single crystals of various alloys of the refractory metals. It is found that an increase in the purity of zone refined molybdenum considerably lowers its resistance to deformation. Based on experimental results, a series of figures illustrate the substructure of single crystalline alloys, the mechanical properties of single crystal alloys of the molybdenum-niobium system, and the microhardness of alloys of the molybdenum-niobium system. P. M. Nosov, N. P. Khazov, A. Ye. Tsutskov, and T. S. Stronina took part in the work. Orig. art. has: 6 figures and 3 tables.

SUB CODE: 11/ SUBM DATE: 10 Jun66/ ORIG REF: 012/ OTH REF: 005

Card 2/2

KARDASHEVSKIY, S.V., inzh.

Ways of mechanizing the single-ball planting of sugar beets, Trudy VISKHOMa no.40:80-95 163. (MIRA 17:9)

KARDASHEVSKIY, S.V., inzh.

Variation of the starting flow of seeds in single-seed planting of sugar beets. Mekh. i elek. sots. sel'khoz. 21 no.5:22-24 163. (MIRA 17:1)

1. Pushkinskaya mashinoispytatelinaya stantsiya.



KARDASHEVSKIY, S.V., inzh.

In the Scientific Technical Council of the All-Union Scientific Research Institute of Agricultural Machinery. Trakt. i sel'-khozmash. 33 no.9:47 S '63. (MIRA 16:10)

(Agricultural machinery)



VEVERS, E.V., KARDASHEVSKIY, S.V.

Statistical modeling of the process of sowing sugar best seeds. Trakt. i sel'khozmash. 33 no.9:20-21 S 163.

(MIRA 16:10)

(Sugar bests) (Planters (Agricultural machinery))

KARDASHEVSKIY, S.V., kand. tekhn. nauk

Reviews and bibliography. Trakt. i sel'khozmash. no.6:48 Je '65. (MIRA 18:7)

l. Pushkinskaya mashinoispytatel'naya stantsiya.

KARDASHIN, L.I.; KAZANTSEV, V.S.

Improving the quality of surface machining of viston pins. avt. prom. no.10:35-38 0 460. (MIR4 13:11)

1. Gor'kovskiy avtozavod.

(Grinding and polishing)

KARDASHIN, L.I., inzh.; KAZANTSEV, V.S.

Effect of the adjustment on the quality of machining parts on centerless polishing machines. Vest.mash. 40 no.10:60-63 0'60.
(MIRA 13:10)

(Grinding and polishing)

S/113/60/000/010/011/014 D270/D301

AUTHORS:

Kardashin, L.I., and Kazantsev, V.S.

בני לנוח ביו.

Improving surface finish in the machining of

gudgeon pins

PERIODICAL: Avtomobil@naya promyshlennost!, no. 10, 1960, 35 - 38

TEXT: Stringent requirements are imposed on gudgeon pins for the TAB-51 (GAZ-51) automobile. Tolerances for diameter, cylindricity and roundness must not exceed 0.0025 mm, whereas surface finish must be kept within class V10 "b". The component is ground on 8 machines in an automatic line, while finish operations are performed on two type 286 [Abstractor's note: Soviet] or Cincinnati No. 5 centerless grinders. Quality and output depend entirely upon correct setting of these machines, but occasionally it is impossible to ensure the desired result due to insufficient knowledge of centerless grinding. A study of the effect of inidvidual elements of setting on the quality of the machined components was carried out on Cincinnati No. 5 grinders at the Moskovskiy avtozavod (Moscow

Card 1/4

S/1±3/60/000/0±0/011/014 D274)/D301

Improving surface finish in the ...

Automobile Plant): @120C2K (E120S2K), @120CT3K (E120SEK), @2150CT3K (EB150ST3K), DE180CT2K (EB180ST2K) and SE320CF2K (EB520ST2K) granding wheels together with K5520SM2B regulating wheels were tested. The working capacity of the wheels was determined by their machining capacity and by surface finish of the machined components after 2 hours of operation. Surface finish was measured by a profilometer whereas the machining capacity was determined by the constancy of metal removed in one pass. The tests demonstrated that the EB320 ST2K. EB_80ST2K and EB 150ST3K wheels gave good surface finish, but do not possess an adequate machining capacity. On the other hand, El20S2K wheels have a sufficient machining capacity, but do not give the desired surface rimish. During the last operation, the grinding wheels should have only a polishing capacity. Their useful life between truing amounted to 50,000 - 60,000 components. Machining conditions are improved when there is a certain elasticity of the regulating wheel. The angle of inclination of the working wheel in vertical plane of a Cincinnati No. 5 grinder is opposite to the angle of inclination of the regulating wheel. The inclination of the working wheel improves machining: contact stresses in Card 2/4

S/113/60/000/010/011/014 D270/D301

Improving surface finish in the ...

the component are reduced, and this gives a better finish and greater accuracy. During tests the angle of working wheel was varied from 2.5 to 4° and that of the regulating wheel from 2 to 3°. Deterioration in finish was observed with smaller inclination of the working wheel or larger angle of the regulating wheel. The angle of inclination for the working wheel in the first machine (preciding the last operation) was 3.5°, whereas in the last grinder it was 3°. Inclination of the regulating wheels in both cases was 2°. A greater inclination results in lower speed of the component which impairs the quality of finish. Both wheels are given a hyperboloid shape to ensure full contact between component and wheel. This is achieved by slewing the truing devices in the horizontal plane by an angle equal to that in the vertical plane, and also by shifting the diamond tool from zero position to the right for regulating and to the left for working wheel by an amount, calculated in an equation. It was found that an increase in the speed of the working wheel improved the finish. Preliminary truing should be made with diamond impregnated tools, and final truing with a diamond. The working part of the supporting blade of the first grinder consisted Card 3/4

\$/113/60/000/010/011/014 D270/D301

Improving surface finish in the ...

of accurately lapped rectangular carbide strips with 500 edge. The second grinder was provided with a textolite working blade and a flat top. The straightness, horizontal disposition and state of the working part of the abors, as well as their position in relation to the centers height of the wheels have a great effect on finish. The results of a study of the effect of this height on finish are shown. Machining practice with Cincinnat: No. 5 granders revealed that, all other conditions being equal, lengthening of the contact between workpiece and wheels improves the finish due to the greater number of grains that take part in the work. As a rule, the length of contact is reduced after each truing due to various factors. This should be remedied by resetting the wheels with the use of a control shaft of the same diameter as the workpiece, but longer than the width of wheels. Due to the small wheel inclination, the line of contact after truing is easily restorted by cross tie bolts. The position of the guide plates has a great effect on the geometrical form and finish of the components. There are 3 figures and 2 tables. ASSOCIATION: Gor kovskiy avtozaved (Gor kiy Automobile Plant)

Card 4/4

KARDASHIN, L.I.

Investigating some factors affecting the elasticity of riston rings. Avt.prom. 28 no.1:33-39 Ja 62. (MIRA 15:2)

Investigating some technological factors affecting the fitting and radial pressure diagram of piston rings. Avt.prom. 28 no.10:32-35 0 '62. (MIRA 15:9) 1. Gor'kovskiy avtozavod. (Piston rings)

SOV/102-55-5/10
AUTHORS: Kardashev, A.A. and Karnyushyn, L.V. (Karnyushin, L.V.)

TITLE: Constructing Frequency Characteristics from Experimental
Transient Response Curves (Do pytannya pro pobudovy chastot-

nykh kharakterystyk za eksperymental ny my kry vy my

perekhidnykh protsesiv).

PERIODICAL: Artomatika (Kyiv), 1956, Nr.3, pp.74-83 (USSR)

ABSTRACT: In para.1 the curves are approximated by sections of semiinfinite smooth curves delayed relative to one another
(as shown in Fig.1, and represented mathematically in
Eq.(3)). Eqs.(6) and (7) then have the same general form
as is obtained when piecewise-linear approximation is used.
Eqs.(8)=(10) deal with the forms used for the approximating
curves; Eqs.(11)-(12) relate to the use of Eq.(8) for this
purpose. In para.2 the essentials of Solodovnikov's method
(see Ref.11) are utilized (tables of the hx functions,
given by Solodovnikov (Ref.11) are required). The last
section of the paper deals with an example, for a system
with the differential equation of Eq.(18); the response

Card 1/2 to a step input is assumed to be that of Eq. (19). The

507/102-58-3-6/10

Constructing Frequency Characteristics from Experimental Transient Response Curves.

first method is found to give a good result if the approximating functions remain bounded as t approaches infinity (e.g. are exponentials); it is very simple and convenient. Both methods give good results. There are 4 figures and 11 references, of which 8 are Soviet, 2 English and 1 Swiss.

ASSOCIATION: Livius ky politemhnichnyy instytut (Livov Polytechnic Institute).

SUBMITTED: August 25, 1957.

Card 2/2

KARDASHOV, A.A.

AUTHORS:

Kardashov, A. A., Karnyushin, L. V (Livov) 103 19-4 6/12

TITLE:

Determination of the System Parameters by Using Experimental (Given)Frequency Characteristics (Opredeleniye parametrow sistemy po eksperimental nym (zadannym)chastotnym kharakteristikam)

PERIODICAL:

Avtomatika i Telemekhanika, 1958, Vol. 19, Nr 4, pp. 334-345 (USSR)

ABSTRACT:

here the experiment is made to create a universal and sufficiently exact method for the determination of the values of factors of the transfer functions or of single parameters of automalinear models of real elements and of the parameters of automalinear models of real elements and of the parameters of automalinear models of real elements and of the parameters of automalinear models of the superistic control systems by means of approximation of the experitic control systems by means of approximation of the experimental amplitude phase characteristics by interpolation the orientation values for the factors of the analytical formula for the amplitude phase characteristics are found and after this according to the method of the least squares the corrections to the found factors are computed. The suggested method is applicable in case of arbitrary structure of the numerator—and denominator polynomials of the transfer function and gives sufficiently accurate results in the computation with a slide rule. The process of computation is explained at

Card 1/2

Determination of the System Parameters by Using Experimental (Given) Frequency Characteristics 103-19-4-6/12

examples. The method shown here is more universal and exact than the other ways used for this purpose the interpolation method, which is given here, is represented by the fact, that, compared with reference 5, here a solution for a much larger class of approximating transfer functions is obtained, but without essentially complicating the computations. A much greater amount of computation becomes necessary only then, if according to the accuracy conditions for the approximation of the function the corrections to the factors. Which are sought, must be computed

There are 6 figures, 2 tables, and 9 references, all of which

SUBMITTED:

August 9, 1957

AVAILABLE:

Library of Congress

1. Mathematics - Theory 2. For others 3. Polynomials

Card 2/2

13,2000

\$/105/60/000/011/005/008 P012/B058

AUTHORS:

Kardashov, A. A., Engineer, and Karnyushin, L. V., Docent.

Candidate of Technical Sciences

TITLE:

Determining the Parameters of Linearized Simulators of Control Systems According to Experimental Frequency

Characteristics

PERIODICAL: Elektrichestvo, 1960, No. 11, pp. 51 - 55

TEXT: In the papers (Refs. 1-4), methods were explained for determining the numerical values of coefficients of linearized differential equations for elements of automatic control systems. These methods are based on the approximation of the experimental frequency response by an analytical formula already known previously. This formula should be drawn up under consideration of all internal connections and all physical processes within the element, which is practically impossible. Strictly speaking, the required parameters should therefore not be designated as "physical" ones, but as equivalent parameters of the simplified simulator of a real element. The selection of circuit and

Card 1/4

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720710002-2"

Determining the Parameters of Linearized Simulators of Control Systems According to Experimental Frequency Characteristics

s/105/60/000/011/005/008

parameters of correction elements expediently takes place on an electronic simulator. Approximated (simplified) differential equations of the main elements of the system may be used when building up the simulator. Since the initial experimental characteristics may be distorted owing to nonlinearity, measuring errors etc., the methods based on a simple interpolation (Refs. 2,3) are often not sufficiently accurate for the approximation of the frequency response characteristic. In the paper (Ref. 4), a better method was therefore elaborated by the authors. It is based on using the method of the least mean square errors. The calculations for this method are, however, very lengthy. In the present paper, a simple method is given for solving the problem in question. It is true that this method was elaborated for a more narrow (compared with the above mentioned method), but still sufficiently wide class of elements of electromechanic automatic control systems. The amplitudephase characteristics, smoothed out with the aid of statistical processes (Ref. 7), served as initial data for the determination of the required parameters of individual elements or the total control system. The differential equation (1) of a linear simulator of the investigated

Card 2/4

Determining the Parameters of Linearized \$\(5/105/60/000/011/005/008 \)
Simulators of Control Systems According to \$\(5012/8058 \)
Experimental Frequency Characteristics

element (and the system respectively) is written down. In most cases, the setup of this equation may be determined already in advance, on the basis of the mode of action of the element. The analytical formula (3) of the amplitude-phase characteristic $W(j\,\omega)$ corresponds to this equation (1). Two constant coefficients $a_{S}(s=1,\,2,\,\ldots,\,n)$ and k are contained in formula (1). The problem consists in finding such values for these coefficients, so that formula (3) may conform best with the experimental characteristic, k is the amplification coefficient and may be determined from the initial part of the characteristic $k=W(j\,\omega)$ $\omega=0$.

A transition to the reciprocal amplitude-phase characteristic $\Psi'(j\omega)$ is made for the determination of a_s ; and system (11) for a_s is finally obtained. This system consists of two groups of equations, each of them containing n/2 unknowns. The method given here is simple and accurate. It can be used for checking the admissibility of a simplification of equations for elements or systems, for the determination of parameters and equations of electric drive systems from given dynamic characteristics and for the synthesis of electric current circuits. There are

Card 3/4

Determining the Parameters of Linearized S/105/60/000/011/005/008 Simulators of Control Systems According to B012/B058 Experimental Frequency Characteristics

X

6 figures, 2 tables, and 7 Soviet referen as.

SUBMITTED: March 28, 1960

Card 4/4

KARDASHOV, Arkadiy Aleksandrovich, assistent

Frequency method for designing transient processes in dynamic systems during arbitrary perturbation process. Izv.vys.ucheb. zav.; elektro-mekh. 3 no.1:61-72 '60. (MIRA 13:5)

1. Kafedra elektrifikatsii promyshlemnykh predpriyatiy L'vovskogo politekhnicheskogo instituta. (Automatic control)

BARDACHEVSKII, V.T., kand.tekhn.nauk, dotsent: KARDASHOV, A.A., inzh.

Static accuracy of the operation of an automatic control system. Elektrichestvo no.9:22-25 S '61. (MIRA 14:9)

1. L'vovskiy politekhnicheskiy institut.
(Automatic control)

L 14533-63 EWT(d)/FFC(w)/EDS AFFTC/ASD/APGC Pg-4/Pk-4/P1-4/Po-4/Pq-4

ACCESSION NR. AP3004818

\$/0103/63/021/008/1073/1083

AUTHOR: Kardanhov, A. A. (L'vov)

72

TITLE: Analysis of the quality of automatic control by the method of reducing the order of differential equations

SOURCE: Avtomatika i telemekhanika, v. 24, no. 8, 1963, 1073-1083

TOPIC TAGS: stable automatic-control system, quality analysis, differential-equation order reduction, automatic control system

ABSTRACT: A method is presented for reducing the order of the differential equation which describes a stable linear control system. This method is based on the approximation, by the method of least squares, of curves of transient processes corresponding to the original and reduced differential equations. The problem of determining the coefficients of the reduced differential equation from the coefficients of the original equation is analyzed. This problem is first reduced to the solution of a system of nonlinear (with respect to unknown coefficients) equations of which the solutions cannot be obtained in explicit form. By means of certain assumptions and transformations this system is reduced to a linear one. The error of approximation is estimated by the standard deviation formula expressed

Card 1/2

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KARDASHOV, A.A. (Livov)

Analysis of the quality of an automatic control system using a differential equation order reduction technique. Avtom. i telem. 24 no.8:1073-1083 Ag '63. (MIRA 16:8)

(Automatic control)

KARDASHOV, A.A., inzh.; KARNYUSHIN, L.V., kand.tekhn.nauk

Second-order delay component equivalent for a complex dynamic system. Elektrichestvo no.7:70-73 Jl 163. (MIRA 16:9)

1. Ukrainskiy zaochny; politekhnicheskiy institut.
(Automatic control)

KARDASHOV, D.A., kand.tekhn.nauk.

New synthetic adhesives. Khim.nauka i prom. 2 no.5:602-612
157. (Adhesives)

(Adhesives)

KARDASHOV, D.A.; OHLOVA, I.A., red.; GONCHAROV, N.G., teknn.red.

[Epoxide resins; methods of preparation, properties, and fields of application] Epoksidnye smoly; sposoby poluchenia, svoistva i oblasti primeneniia. Moskva, Vses.in-t nauchn.i tekhn. informatsii, 1959. 37 p.

(Epoxy resins)

KARDASHOV, D.A., red.; PANSHIN, B.I., kand.tekhn.nauk, red.; SHEKHTMAN, R.A., izdat.red.; ROZHIN, V.P., tekhn.red.

[Glue and gluing technology] Klei i tekhnologiia skleivaniia; sbornik statei. Moskva, Gos.nauchno-tekhn.izd-vo, 1960. 284 p. (Gluing) (MIRA 13:10)

SOLOV'YEVA, V. N. KARDASHOV, D. A.; MASHINA, M. A.; MURINA, I. S. MIKHAYLOVA, L. A.

Phenol-rubber adhesive of higher elasticity. Plast. massy no.11244-46 '62. (MIRA 16:1)

(Adhesives) (Phenol condensation products)

BLAGONRAVOVA, A.A., kand.tekhn.nauk; KARDASHOV, D.A., kand.tekhn.nauk

New types of polymer coatings and adhesives. Zhur.VKHO 7 no.2:

187-194 '62. (MIRA 15:4)

(Protective coatings) (Adhesives) (Polymers)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720710002-2

KARDASHOV, D.A.; ZAMANSKIY, I.M.

Synthetic adhesives for metal-bonding to metal. Plast.massy Synthetic a.... no.2:72=77 '63. (Adhesives) (MIRA 16:2)

(Metals)

KARDASHOV, David Alekseyevich; NIKOLAYEV, A F $_{\rm F}$ res.

[New adhesives based on synthetic polymers for bonning metals to nonmetallic materials] Novye klet na osnove sinteticheskikh polimerov dlia skleivaria metallicvi nemetallicheskikh materialov. Leningrad, 1964, 8 p. (MIRA 18 3)

It 37723-65 SPF(c)/EPR/EMP(3)/EMT(m)/T/EMP(v) Pc-h/Pr-h/Ps-h RM/NW

ACCESSION NR: APA028546 S/0191/64/000/004/0023/0025

AUTHORS: Bek; V:I: Kardashov, D.A: Vlasova-Golovataya, V:I: 3/

TITLE: Heat-resistant elastic adhesive VK-h

SCURCE: Plasticheskiye massy*, no. 4, 1964, 23-25

TOPIC TAGS: adhesive, filled phenolic rubber adhesive, physical property, chemical property; thermal stability

ABSTRACT: The physical and chemical properties of VK-L adhesive (a phenolic-rubber composition containing inorganic fillers) wers investigated. The results of shear strength and stripping tests showed that VK-4 joints are stable for a long time at high temperatures. After being subjected to temperature changes [50 cycles at -60C for 1 hour, 20 C for 0.5 hour, 275C for 1 hour and 20C for 0.5 hour), the Shear strength of VK-bonded steel joints at 20C was reduced 30-40% and the adhesive strength, by 70%; at 275 and 300C there is no change in Shear strength and the adhesive strength is reduced 45-50%. VK-4 is resistant to the action of water, gasoline, kerosene, AMG-F type hydraulic liquid, T-2 fuel and transformer oil; it does not cause anodic corrosion of aluminum alloy D16, aluminum powder or

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KARDASHOV, David Alekseyevich; KUDISHINA, Vera Alekseyevna; SHUMSKAYA, Nina Ivanovna; CHERNOV, M.M., kand. tekhn. nauk, retsenzent; ANTONOVA, S.D., red.

[Epoxy resins and safety measures to be applied in their handling] Epoksidnye smoly i tekhnika bezopasnosti pri rabote s nimi. Moskva, Mashinostroenie, 1964. 135 p. (MIEA 17:11)

KARDASHOV, David Alekseyevich. Prinimal uchastiye LANGE, Yu.V.; VERIKOVA, Ye.S., red.

[Synthetic adhesives] Sinteticheskie klei. Moskva, Izd-vo "Khimiia," 1964. 494 p. (MIRA 17:6)

L 31806-65 EWT(m)/EPF(c)/EWF(w)/EPR/EWF(j)/T Pc-4/Pr-4/Ps-4 WW/RM-ACCESSION NR AM4047294 BOOK EXPLOITATION

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Kardsshov, David Alekseyevich

BH

Synthetic adhesives (Sinteticheskiye klei), Moscow, Isd-vo "Khimiya", 1984, h9h p. 113us., biblio., indices. Errats slip inserted. 7,200 copies printed.

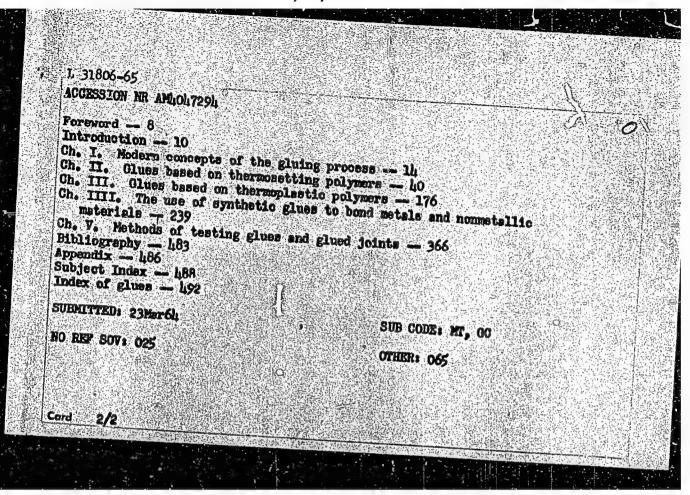
TOPIC TAGS: synthetic glue, thermoplastic glue, thermosetting glue, metal to metal bonding, metal to nommetal bonding

PURPOSE AND COVERAGE: This momograph presents the theoretical principles of the gluing process, describes the methods of obtaining and the properties of synthetic glues, the technology of using glues to join metals and nonmetallic meterials in various fields of engineering, and also methods of testing glues and glued joints. The book is intended for engineers, technicisms, and researchers in machine building, electrical engineering, construction, woodworking, and the chemical industry and other branches of the economy connected with the development, production, and use of synthetic plues.

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KARDASHOV, I., polkovnik zapasa, kand. filosof. nauk

Our international duty. Voen. znan. 40 no.12:11-12 D *62

(MIRA 18:1)

KARDASHOV, I., polkovnik zapasa, kand.fiolscf.nauk

Soviet patriotism and socialist internationalism. Voen.znan.
38 no.12:16-18 D :62. (MIRA 15:12)

(Military education) (Internationalism)



KARDASHOV, Ivan Stepanovich, polkovnik, kand.filosof.nauk; MHLYNOV, N.M., red.; BEZDENEZHNYKH, P.T., red.; STREL'NIKOVA, M.A., tekhn.red.

[International obligation of the Soviet Armed Forces] International nyi dolg Vooruzhennykh Sil SSSR. Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 211 p. (MIRA 13:5)

VLASHCHENKO, L.F.; NOVIKOV, V.M.; ZINOV'YEVA, M.M.; SIDOROVA, A.F.; KARDASHOVA, A.A.; KLEYMENOV, I.Ya.; KRASLOPOL'SKIY, N.M. [deceased]; IUKASH, Ye.G.; SAMOFALOV, P.Ye.; YASHINA, Ye.I.; KULIKOV, P.I., dots., retsenzent; MAKAROVA, T.I., kand. tekhn. nauk, retsenzent; MERENBURG, A.N., spets. red.; KOSSOVA. O.N., red.; SOKOLOVA, I.A., tekhn.red.

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: Swingrski A., Kardasz A. : Concerning the Existence of the Ion (SO4. SO₂)²...

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Abstract

: Specific electric conductivity 30 of H₂SO_h solutions of different concentration c decreases as a result of their saturation with SO_2 at c > 13%; maximum decrease of SC_1 is observed at $c \sim 30\%$. Lowering of SC_2 is attributed to the formation of the ions $(SO_4, SO_2)^2$.

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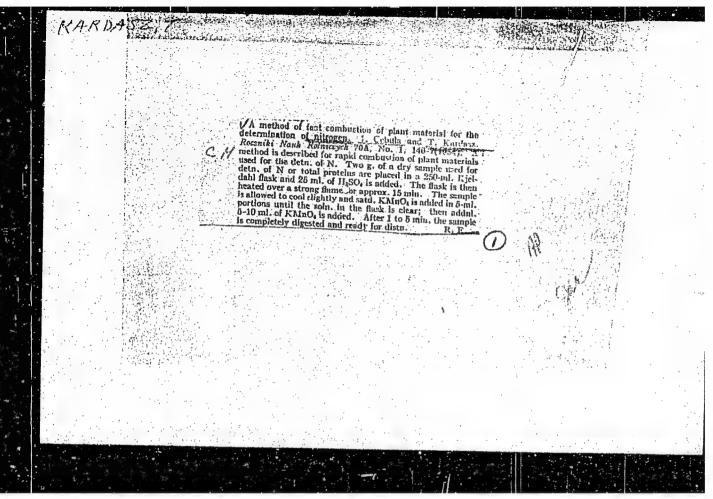
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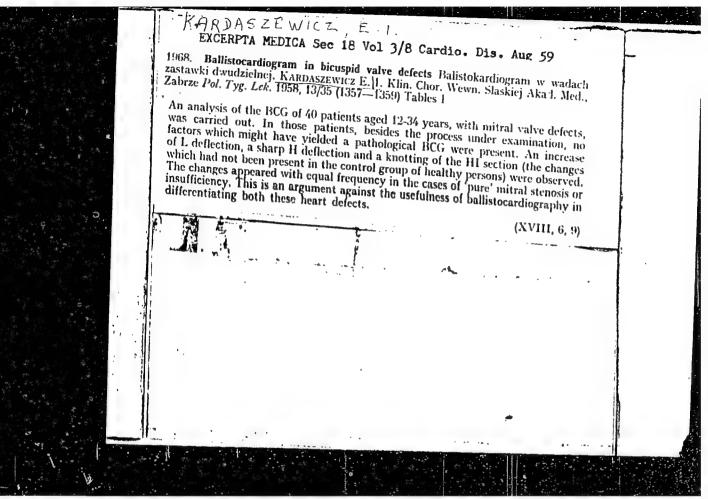


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(DEHYDROGENASES blood) (LEUKEMIA blood)

(BLOOD DISEASES)